

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: MEADOW POND	Lake Area (ha):	19.22
Town: HAMPTON	Maximum depth (m):	0.1
County: Rockingham	Mean depth (m):	0.1
River Basin: Coastal	Volume (m ³):	9500
Latitude: 42°56' N	Relative depth:	---
Longitude: 70°48' W	Shore configuration:	2.06
Elevation (ft): 4	Areal water load (m/yr):	16.01
Shore length (m): 3200	Flushing rate (yr ⁻¹):	320.3
Watershed area (ha): 639.8	P retention coeff.:	0.50
% watershed ponded: 0.6	Lake type:	natural

BIOLOGICAL:

17 February 1988

3 August 1987

DOM. PHYTOPLANKTON (% TOTAL) #1	NO SAMPLE COLLECTED	NO SAMPLE COLLECTED
#2		
#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL) #1	NO SAMPLE COLLECTED	NO SAMPLE COLLECTED
#2		
#3		
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		Sparse
SECCHI DISK TRANSPARENCY (m)		0.1 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)	7.6	
BACTERIA (fecal col., #/100 ml) #1		
#2		
#3		

SUMMER THERMAL STRATIFICATION:

not stratified

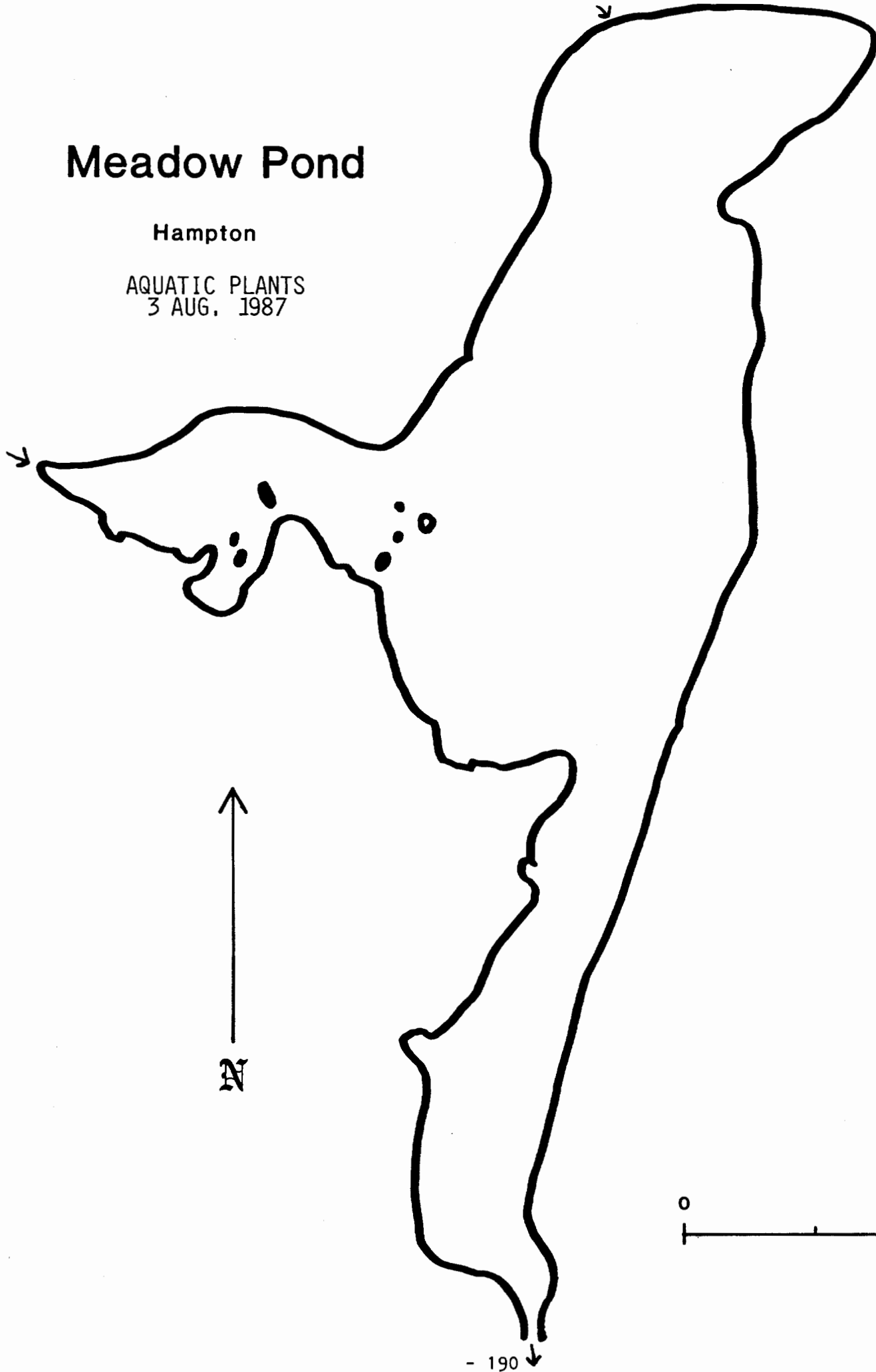
Depth of thermocline (m): None
Hypolimnion volume (m³): None

<u>CHEMICAL:</u>		Lake: MEADOW POND Town: HAMPTON				
	17 February 1988		3 August 1987			
DEPTH (m)	0.0		0.0			
pH (units)	6.1		7.8			
A.N.C. (Alkalinity)	20.8		55.5			
NITRATE NITROGEN	0.14		< 0.50			
TOTAL KJELDAHL NITROGEN	1.17					
TOTAL PHOSPHORUS	0.026					
CONDUCTIVITY (μ mhos/cm)	562.7		19758.0			
APPARENT COLOR (cpu)	130		85			
MAGNESIUM						
CALCIUM						
SODIUM						
POTASSIUM						
CHLORIDE	114		6550			
SULFATE	18		935			
TN : TP	50					
CALCITE SATURATION INDEX						
All results in mg/L unless indicated otherwise						
<u>TROPHIC CLASSIFICATION: 1987</u>						
	D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
	**	**	**	**	**	N/C
<u>COMMENTS:</u>						
<ol style="list-style-type: none"> 1. Previously called Great Pond. 2. This pond is adjacent to the Atlantic Ocean at North Beach. It was flat and shallow with a soft, mucky bottom: about six inches of water over 8 inches of soft flocculent mud. 3. The pond is clearly impacted by the ocean, probably from salt spray. There was no obvious channel that would indicate regular tidal influence. 4. No soundings were taken, no temperature or oxygen profile was conducted, and no plankton samples were collected because of the shallow water. No trophic classification was assigned. 						

Meadow Pond

Hampton

AQUATIC PLANTS
3 AUG. 1987



AQUATIC PLANT SURVEY

LAKE: MEADOW POND

TOWN: HAMPTON

DATE: 08/03/87

[illegible]

OVERALL ABUNDANCE: Sparse

GENERAL OBSERVATIONS:

1. No plants were present in the open water, but the pond was surrounded by the above listed plants, primarily *Phragmites*.